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COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 15, No. 7

WEEKLY REPORT

Week Ending February 19, 1966

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

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CURRENT TRENDS
INFLUENZA IN THE UNITED STATES

Type B influenza virus has been identified in two more eastern States, Connecticut and Alabama. This brings to 6 the total of States in which the etiology of widespread or scattered outbreaks of febrile respiratory illness has been identified as influenza B, either through virus isolation or serological procedures (MMWR, Vol. 15, No. 6). Following recent notifications of increased amounts of febrile illnesses in one or more communities in New Hampshire, Vermont, New York, New Jersey and North Carolina, the respective State Health Departments are similarily investigating these influenza-like outbreaks. A total of 12 States in the eastern United States have now confirmed the presence of influenza B or are investigating suspected influenza.

Pneumonia-influenza mortality data from 122 cities in the United States does not demonstrate any excess on a national basis although the South Atlantic and East South Central Divisions, where influenza has been demonstrated, each show a slight increase above the

(Continued on page 54)

CONTENTS

Current Trends
Influenza – United States 53
Influenza Laboratory Findings 54
Meningococcal Infections 55
Epidemiologic Notes and Reports
Measles – Mason County, Kentucky 60

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	7th WEEK ENDED		MEDIAN 1961–1965	CUMULATIVE, FIRST 7 WEEKS		MEDIAN 1961–1965
	FEBRUARY 19, 1966	FEBRUARY 20, 1965		1966	1965	
Aseptic meningitis	24	21	19	180	194	164
Brucellosis	–	4	5	23	26	39
Diphtheria	3	4	4	19	22	38
Encephalitis, primary:						
Arthropod-borne & unspecified	27	25	- - -	164	199	- - -
Encephalitis, post-infectious	25	10	- - -	101	86	- - -
Hepatitis, serum	16	829	1,231	137	5,620	7,837
Hepatitis, infectious	718			4,907		
Measles (rubeola)	7,444	9,355	11,139	40,455	51,984	62,180
Poliomyelitis, Total (including unspecified)	–	1	3	2	2	27
Paralytic	–	1	2	1	2	23
Nonparalytic	–	–	- - -	–	–	- - -
Meningococcal infections, Total	107	110	49	547	496	377
Civilian	91	105	- - -	477	476	- - -
Military	16	5	- - -	70	20	- - -
Rubella (German measles)	1,446	- - -	- - -	7,042	- - -	- - -
Streptococcal sore throat & Scarlet fever	12,279	12,023	10,323	70,425	74,792	64,114
Tetanus	4	4	- - -	15	24	- - -
Tularemia	4	1	- - -	27	38	- - -
Typhoid fever	4	7	7	33	46	48
Typhus, tick-borne (Rky. Mt. Spotted fever)	–	–	- - -	7	6	- - -
Rabies in Animals	71	85	65	503	659	445

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	–	Botulism:	1
Leptospirosis: Iowa-4	7	Trichinosis: N.Y.C.-1	16
Malaria: Ohio-1, Ill.-1, Ky.-1, Penn.-3, Puerto Rico-1	41	Rabies in Man:	–
Psittacosis: Tenn.-1	7	Rubella, Congenital Syndrome:	2
Typhus, murine:	1		

CURRENT TRENDS
INFLUENZA IN THE UNITED STATES

(Continued from front page)

"epidemic threshold"; in the South Atlantic Division this increase is shown for the second week in succession. Mortality in the New England division which barely exceeded the "threshold" in the preceding week has now dropped back to the expected seasonal level.

(Reported by the Influenza-Respiratory Disease Unit, CDC.)

California

Reports from California indicate that nearly half of the counties in the State appear to be affected by influenza. In many of these counties school children are predominantly involved; in others the illness is now appearing in the adult population. The impact of the outbreak has been increasingly substantiated by school absenteeism of up to 40 percent and by absences through illness from commercial and industrial concerns.

Type A2 influenza virus strains have been identified in both northern and southern parts of the State, including San Diego, Los Angeles and Sacramento Counties. In other areas there has been serological identification of type A infections.

(Reported by Dr. Henry Renteln, California State Department of Public Health; and an EIS Officer assigned to the California State Department of Public Health.)

Washington

Isolated school-centered outbreaks of an influenza-like disease resulting in absenteeism considerably above seasonal levels have recently been reported in Olympia, Seattle, and Spokane. Type B influenza virus strains have been recovered from typical cases in one investigation, carried out in an Olympia school, where a study of unpaired acute-convalescent phase serum samples had shown evidences of type B infection. Investigation of the other outbreaks is underway.

(Reported by Dr. Ernest A. Ager, Chief, Division of Epidemiology, State Department of Health, Olympia, Washington; and an EIS Officer assigned to the State Department of Health, Washington.)

INFLUENZA LABORATORY FINDINGS

Influenza viruses isolated in various geographic areas of the world during the last several weeks have been predominantly type B. Preliminary hemagglutination inhibition tests to characterize these viruses have been completed and, although clearly related to viruses isolated in previous years, the tests suggest an antigenic difference. It should be noted that extensive variation among type B viruses has been observed for the past few years, the significance of which is not clear at the present time.

Table 1
HEMAGGLUTINATION-INHIBITION TESTS WITH CURRENTLY PREVALENT TYPE B INFLUENZA VIRUSES

Virus Strains	Chicken antisera			
	B/Maryland/1/59	B/Taiwan/2/62	B/Singapore/3/64	B/Georgia/1/65
B/Maryland/1/59*	1280	<10	80	40
B/Taiwan/2/62	80	80	10	20
B/Singapore/3/64	1280	<10	80	40
B/Georgia/1/65	160	<10	20	80
B/Massachusetts/1/66	80	<10	10	20
B/Massachusetts/2/66	320	<10	10	20
B/Massachusetts/3/66	640	<10	10	40
B/Georgia/1/66	1280	<10	80	640
B/Georgia/2/66	160	<10	20	20
B/Georgia/3/66	1280	<10	80	640
B/Georgia/4/66	80	<10	10	20
B/Georgia/5/66	80	<10	10	20
B/Great Lakes/1-7/66	160	<10	20	80

*Type B influenza virus component in commercially prepared vaccines.

Homologous antiserum has been prepared with one of the strains currently active in the United States (B/Georgia/1/65, isolated in December) and typical results are shown in Table 1, using a number of strains isolated from cases in Massachusetts, Georgia and Illinois. It would appear that these currently active viruses are not a homogenous group with respect to their avidity for antibody and, until further tests are completed, it is not possible to place them in their proper antigenic relationship to earlier viruses. However, they are clearly unlike the antigenic variant which appeared in Taiwan in 1962, and they have been readily identified using antiserum of high titer prepared with the B/Maryland/1/59 virus, the type B strain at present used in vaccine production in the United States.

(Reported by the WHO International Influenza Center for the Americas, Communicable Disease Center, Atlanta.)

MENINGOCOCCAL INFECTIONS

An additional 107 cases of meningococcal infection have been reported by State Health Departments this week, bringing to 547 the total of cases reported through the 7th week of 1966 (Table 2). The current reported incidence of meningococcal infections is shown in Figure 1 and is compared to 1965 as well as to the median for the period 1961-1965. The close approximation of the present curve to that of last year indicates that a period of continued high incidence may be expected for several weeks to come.

Table 2
MENINGOCOCCAL INFECTIONS – UNITED STATES
Total Cases Reported to CDC
1st Through 7th Week, 1964 to 1966

	1964	1965	1966
United States	377	496(20)*	547(70)*
New England	10	29	36
Middle Atlantic	46	73	79
East North Central	55	63	88
West North Central	17	19	27
South Atlantic	85	104	94
East South Central	29	27	40
West South Central	50	65	67
Mountain	22	19	23
Pacific	63	97	93

*Cases in Armed Forces reported through State Health Departments

The results of sulfadiazine sensitivity testings of strains of meningococci submitted to the Communicable Disease Center during 1965 and for the first 7 weeks of 1966 are shown in Table 3. The strains were submitted from States in all geographic areas of the United States and were isolated, with few exceptions, from the blood or cerebrospinal fluid of civilian cases.

Over 90 percent of the typable strains have been in serogroup B. During 1965, 65 percent of these strains were inhibited at the level of 1 mgm percent of sulfadiazine or less; thus far in 1966, 51 percent of the strains submitted have been inhibited at that level.

(Reported by Investigations Section, Epidemiology Branch, and General Bacteriology Unit, Laboratory Branch, CDC.)

FIGURE 1
MENINGOCOCCAL INFECTIONS BY WEEK OF REPORT
1965, 1966 AND MEDIAN, 1961-65

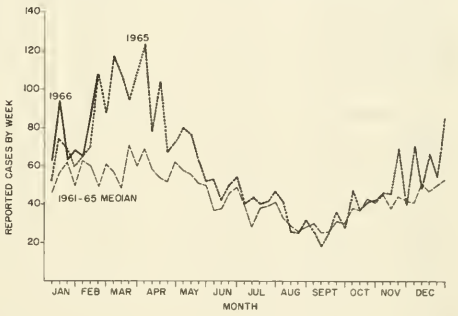

Table 3
MINIMUM INHIBITORY CONCENTRATION OF SULFADIAZINE AGAINST MENINGOCOCCI
Strains Submitted to the Communicable Disease Center

M.I.C., mgm%	.05	.1	.5	1.0	3.0	5.0	10.0	15.0	≥ 20.0	Total Strains
Jan. – Dec., 1965										
# of Strains	96	31	66	29	46	23	30	10	8	339
Cumulative Percent	28	37	57	65	79	86	95	98	100	.....
Jan. 1966 to Present										
# of Strains	16	5	19	--	5	6	13	2	12	78
Cumulative Percent	21	27	51	51	58	65	82	85	100	.....

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
FEBRUARY 19, 1966 AND FEBRUARY 20, 1965 (7th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	ENCEPHALITIS			DIPHTHERIA		HEPATITIS		
				Primary including unsp. cases		Post-Infectious			Serum	Infectious	Both Types
	1966	1965	1966	1966	1965	1966	1966	1965	1966	1966	1965
UNITED STATES...	24	21	-	27	25	25	3	4	16	718	829
NEW ENGLAND.....	1	1	-	3	7	2	-	-	1	21	43
Maine.....	-	-	-	-	1	-	-	-	-	6	7
New Hampshire.....	-	1	-	-	-	-	-	-	-	3	4
Vermont.....	-	-	-	-	-	-	-	-	-	2	-
Massachusetts.....	1	-	-	1	5	-	-	-	1	6	16
Rhode Island.....	-	-	-	1	-	1	-	-	-	-	5
Connecticut.....	-	-	-	1	1	1	-	-	-	4	11
MIDDLE ATLANTIC.....	2	4	-	9	4	3	-	-	10	105	141
New York City.....	-	-	-	4	1	-	-	-	9	21	30
New York, Up-State.	-	1	-	1	1	2	-	-	1	36	62
New Jersey.....	2	-	-	4	-	-	-	-	-	12	18
Pennsylvania.....	-	3	-	-	2	1	-	-	-	36	31
EAST NORTH CENTRAL...	3	1	-	2	5	7	-	1	-	147	181
Ohio.....	-	-	-	2	1	-	-	1	-	27	35
Indiana.....	2	-	-	-	-	-	-	-	-	10	32
Illinois.....	-	-	-	-	3	6	-	-	-	18	40
Michigan.....	1	1	-	-	1	1	-	-	-	81	68
Wisconsin.....	-	-	-	-	-	-	-	-	-	11	6
WEST NORTH CENTRAL...	-	2	-	-	-	-	1	1	-	42	40
Minnesota.....	-	1	-	-	-	-	-	1	-	4	5
Iowa.....	-	-	-	-	-	-	-	-	-	4	7
Missouri.....	-	-	-	-	-	-	-	-	-	29	9
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	1	-	-	2	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	1	-	-	-	-	-	-	-	3	19
SOUTH ATLANTIC.....	5	1	-	5	4	5	-	2	-	77	100
Delaware.....	-	-	-	-	-	-	-	-	-	2	8
Maryland.....	-	-	-	1	-	-	-	-	-	20	39
Dist. of Columbia..	-	-	-	-	-	-	-	2	-	-	2
Virginia.....	-	-	-	2	1	-	-	-	-	15	8
West Virginia.....	1	-	-	-	-	-	-	-	-	15	18
North Carolina.....	-	-	-	-	-	-	-	-	-	7	10
South Carolina.....	1	-	-	-	-	-	-	-	-	4	-
Georgia.....	-	-	-	1	-	-	-	-	-	3	9
Florida.....	3	1	-	1	3	5	-	-	-	11	6
EAST SOUTH CENTRAL...	1	1	-	2	1	1	-	-	-	51	76
Kentucky.....	1	1	-	-	1	1	-	-	-	20	18
Tennessee.....	-	-	-	2	-	-	-	-	-	23	41
Alabama.....	-	-	-	-	-	-	-	-	-	-	13
Mississippi.....	-	-	-	-	-	-	-	-	-	8	4
WEST SOUTH CENTRAL...	3	5	-	1	1	-	1	-	-	51	84
Arkansas.....	-	-	-	-	-	-	-	-	-	6	10
Louisiana.....	2	-	-	-	-	-	1	-	-	9	16
Oklahoma.....	-	-	-	-	-	-	-	-	-	-	2
Texas.....	1	5	-	1	1	-	-	-	-	36	56
MOUNTAIN.....	-	-	-	-	1	-	-	-	-	51	42
Montana.....	-	-	-	-	-	-	-	-	-	-	3
Idaho.....	-	-	-	-	-	-	-	-	-	5	4
Wyoming.....	-	-	-	-	-	-	-	-	-	3	3
Colorado.....	-	-	-	-	-	-	-	-	-	8	9
New Mexico.....	-	-	-	-	-	-	-	-	-	20	8
Arizona.....	-	-	-	-	-	-	-	-	-	8	5
Utah.....	-	-	-	-	1	-	-	-	-	7	9
Nevada.....	-	-	-	-	-	-	-	-	-	-	1
PACIFIC.....	9	6	-	5	2	7	1	-	5	173	122
Washington.....	-	-	-	-	-	2	-	-	1	10	13
Oregon.....	1	-	-	-	-	-	-	-	-	9	5
California.....	7	5	-	5	2	5	1	-	4	149	99
Alaska.....	-	-	-	-	-	-	-	-	-	3	3
Hawaii.....	1	1	-	-	-	-	-	-	-	2	2
Puerto Rico.....	-	-	-	-	-	-	-	2	-	8	23

CASES OE SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

EOR WEEKS ENDED

EEBRUARY 19, 1966 AND FEBRUARY 20, 1965 (7th WEEK) · Continued

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS				RUBELLA
							Total		Paralytic		
	1966	Cumulative		1966	Cumulative		1966	1965	1966	Cumulative 1966	1966
		1966	1965		1966	1965					
UNITED STATES...	7,444	40,455	51,984	107	547	496	-	1	-	1	1,446
NEW ENGLAND.....	56	515	12,461	12	36	29	-	-	-	-	116
Maine.....	6	54	1,352	3	3	5	-	-	-	-	10
New Hampshire.....	3	8	186	-	7	1	-	-	-	-	1
Vermont.....	1	137	113	-	1	-	-	-	-	-	5
Massachusetts.....	34	193	7,333	6	14	12	-	-	-	-	53
Rhode Island.....	1	33	1,503	-	2	4	-	-	-	-	3
Connecticut.....	11	90	1,974	3	9	7	-	-	-	-	44
MIOOLE ATLANTIC.....	1,043	6,099	1,874	8	79	73	-	-	-	-	66
New York City.....	453	3,012	214	2	16	12	-	-	-	-	46
New York, Up-State.	62	661	681	-	15	17	-	-	-	-	20
New Jersey.....	126	573	270	3	26	29	-	-	-	-	-
Pennsylvania.....	402	1,853	709	3	22	15	-	-	-	-	-
EAST NORTH CENTRAL...	3,596	16,683	9,182	15	88	63	-	-	-	-	483
Ohio.....	160	871	1,811	3	27	18	-	-	-	-	36
Indiana.....	395	866	387	3	10	7	-	-	-	-	124
Illinois.....	1,240	3,857	279	5	18	14	-	-	-	-	104
Michigan.....	391	2,521	4,983	4	24	15	-	-	-	-	91
Wisconsin.....	1,410	8,568	1,722	-	9	9	-	-	-	-	128
WEST NORTH CENTRAL...	324	1,635	3,830	7	27	19	-	-	-	-	48
Minnesota.....	99	618	93	1	6	4	-	-	-	-	1
Iowa.....	105	544	1,981	-	4	-	-	-	-	-	43
Missouri.....	23	104	433	4	10	9	-	-	-	-	-
North Oakota.....	97	352	1,203	-	-	3	-	-	-	-	4
South Oakota.....	-	2	25	-	1	1	-	-	-	-	-
Nebraska.....	-	15	95	-	1	-	-	-	-	-	-
Kansas.....	NN	NN	NN	2	5	2	-	-	-	-	-
SOUTH ATLANTIC.....	488	3,377	7,395	20	94	104	-	-	-	-	113
Oelaware.....	2	43	102	-	-	2	-	-	-	-	2
Maryland.....	110	631	231	6	14	5	-	-	-	-	19
Dist. of Columbia..	50	179	10	-	-	3	-	-	-	-	-
Virginia.....	55	275	1,060	4	11	15	-	-	-	-	12
West Virginia.....	I62	1,573	5,216	1	4	8	-	-	-	-	63
North Carolina.....	4	41	110	-	17	17	-	-	-	-	-
South Carolina.....	-	132	110	2	16	12	-	-	-	-	10
Georgia.....	-	34	185	2	7	19	-	-	-	-	-
Florida.....	105	469	371	5	25	23	-	-	-	-	7
EAST SOUTH CENTRAL...	530	4,850	2,592	10	40	27	-	-	-	-	217
Kentucky.....	95	1,867	171	6	22	8	-	-	-	-	132
Tennessee.....	401	2,796	1,771	-	10	12	-	-	-	-	84
Alabama.....	10	91	452	2	5	7	-	-	-	-	1
Mississippi.....	24	96	198	2	3	-	-	-	-	-	-
WEST SOUTH CENTRAL...	563	2,796	5,961	18	67	65	-	-	-	1	6
Arkansas.....	13	37	572	-	5	4	-	-	-	-	-
Louisiana.....	4	29	11	5	14	26	-	-	-	-	-
Oklahoma.....	12	33	41	-	2	8	-	-	-	1	-
Texas.....	534	2,697	5,337	13	46	27	-	-	-	-	6
MOUNTAIN.....	281	1,755	4,115	3	23	19	-	1	-	-	130
Montana.....	31	286	1,327	-	2	-	-	-	-	-	1
Idaho.....	54	278	644	-	-	-	-	-	-	-	8
Wyoming.....	-	21	102	-	1	1	-	-	-	-	-
Colorado.....	39	188	612	-	13	7	-	-	-	-	16
New Mexico.....	11	15	86	1	2	2	-	-	-	-	-
Arizona.....	132	896	114	2	4	4	-	1	-	-	101
Utah.....	14	67	1,205	-	-	3	-	-	-	-	4
Nevada.....	-	4	25	-	1	2	-	-	-	-	-
PACIFIC.....	563	2,745	4,574	14	93	97	-	-	-	-	267
Washington.....	198	834	1,447	1	6	4	-	-	-	-	153
Oregon.....	24	244	818	1	4	6	-	-	-	-	37
California.....	336	1,630	1,842	12	73	86	-	-	-	-	74
Alaska.....	1	8	49	-	8	1	-	-	-	-	1
Hawaii.....	4	29	418	-	2	-	-	-	-	-	2
Puerto Rico.....	53	432	208	-	-	2	-	-	-	-	2

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
FEBRUARY 19, 1966 AND FEBRUARY 20, 1965 (7th WEEK) - Continued

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966
UNITED STATES...	12,279	4	15	4	27	4	33	-	7	71	503
NEW ENGLAND.....	1,603	1	2	1	1	1	2	-	-	1	4
Maine.....	216	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	34	-	-	-	-	-	-	-	-	-	-
Vermont.....	17	-	-	-	-	-	-	-	-	1	4
Massachusetts.....	372	1	2	1	1	-	-	-	-	-	-
Rhode Island.....	78	-	-	-	-	-	-	-	-	-	-
Connecticut.....	886	-	-	-	-	1	2	-	-	-	-
MIDDLE ATLANTIC.....	379	-	3	-	-	1	9	-	1	8	47
New York City.....	41	-	3	-	-	1	5	-	-	-	-
New York, Up-State.	249	-	-	-	-	-	2	-	-	8	45
New Jersey.....	NN	-	-	-	-	-	2	-	-	-	-
Pennsylvania.....	89	-	-	-	-	-	-	-	1	-	2
EAST NORTH CENTRAL...	1,232	-	-	2	8	-	6	-	-	6	55
Ohio.....	112	-	-	-	3	-	3	-	-	1	31
Indiana.....	339	-	-	-	1	-	1	-	-	2	9
Illinois.....	193	-	-	1	3	-	-	-	-	1	3
Michigan.....	368	-	-	-	-	-	1	-	-	1	6
Wisconsin.....	220	-	-	1	1	-	1	-	-	1	6
WEST NORTH CENTRAL...	378	1	1	-	2	1	2	-	1	21	137
Minnesota.....	19	-	-	-	-	-	-	-	-	5	26
Iowa.....	155	-	-	-	-	-	-	-	-	3	26
Missouri.....	34	1	1	-	-	1	1	-	-	8	59
North Dakota.....	95	-	-	-	-	-	-	-	-	-	3
South Dakota.....	11	-	-	-	-	-	-	-	-	3	16
Nebraska.....	8	-	-	-	-	-	-	-	-	-	2
Kansas.....	56	-	-	-	2	-	1	-	1	2	5
SOUTH ATLANTIC.....	1,264	-	3	-	5	-	8	-	5	9	66
Delaware.....	12	-	-	-	-	-	-	-	-	-	-
Maryland.....	229	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia..	31	-	-	-	-	-	-	-	-	-	-
Virginia.....	367	-	-	-	2	-	5	-	1	8	53
West Virginia.....	381	-	-	-	1	-	1	-	-	-	5
North Carolina.....	21	-	-	-	2	-	1	-	3	-	-
South Carolina.....	45	-	1	-	-	-	-	-	-	-	-
Georgia.....	12	-	2	-	-	-	-	-	1	1	6
Florida.....	166	-	-	-	-	-	1	-	-	-	2
EAST SOUTH CENTRAL...	1,499	-	-	-	8	1	2	-	-	12	75
Kentucky.....	107	-	-	-	2	-	-	-	-	1	11
Tennessee.....	1,277	-	-	-	4	1	2	-	-	11	62
Alabama.....	7	-	-	-	2	-	-	-	-	-	2
Mississippi.....	108	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	1,181	1	3	1	2	-	1	-	-	10	90
Arkansas.....	6	-	-	1	1	-	-	-	-	1	8
Louisiana.....	5	-	2	-	-	-	-	-	-	-	6
Oklahoma.....	4	-	-	-	-	-	1	-	-	1	7
Texas.....	1,166	1	1	-	1	-	-	-	-	8	69
MOUNTAIN.....	2,477	-	-	-	-	-	2	-	-	-	5
Montana.....	68	-	-	-	-	-	-	-	-	-	1
Idaho.....	282	-	-	-	-	-	-	-	-	-	-
Wyoming.....	16	-	-	-	-	-	-	-	-	-	-
Colorado.....	1,600	-	-	-	-	-	-	-	-	-	-
New Mexico.....	221	-	-	-	-	-	-	-	-	-	-
Arizona.....	55	-	-	-	-	-	1	-	-	-	4
Utah.....	234	-	-	-	-	-	1	-	-	-	-
Nevada.....	1	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	2,266	1	3	-	1	-	1	-	-	4	24
Washington.....	760	-	-	-	-	-	-	-	-	-	-
Oregon.....	40	-	-	-	-	-	-	-	-	-	-
California.....	1,353	1	3	-	1	-	1	-	-	4	24
Alaska.....	60	-	-	-	-	-	-	-	-	-	-
Hawaii.....	53	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	7	-	-	-	-	-	-	-	-	1	1

Week No. 7

Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED FEBRUARY 19, 1966

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza	Under 1 year
	All Ages	65 years and over	All Ages	All Causes
NEW ENGLAND:	823	512	53	39
Boston, Mass.	294	168	12	15
Bridgeport, Conn.	41	24	1	2
Cambridge, Mass.	25	21	7	1
Fall River, Mass.	30	17	-	-
Hartford, Conn.	64	36	4	6
Lowell, Mass.	28	8	1	3
Lynn, Mass.	22	17	4	1
New Bedford, Mass.	28	22	3	1
New Haven, Conn.	50	31	2	1
Providence, R. I.	73	46	6	4
Somerville, Mass.	20	14	1	-
Springfield, Mass.	63	44	8	4
Waterbury, Conn.	26	22	-	-
Worcester, Mass.	59	42	4	1
MIDDLE ATLANTIC:	3,652	2,163	193	168
Albany, N. Y.	48	29	-	4
Allentown, Pa.	42	32	1	-
Buffalo, N. Y.	152	96	8	5
Camden, N. J.	47	24	5	3
Elizabeth, N. J.	27	15	-	1
Erie, Pa.	42	29	3	2
Jersey City, N. J.	82	49	8	1
Newark, N. J.	138	67	7	12
New York City, N. Y.	1,862	1,085	89	82
Paterson, N. J.	33	20	3	2
Philadelphia, Pa.	555	322	23	29
Pittsburgh, Pa.	229	141	9	5
Reading, Pa.	73	47	5	3
Rochester, N. Y.	93	67	10	6
Schenectady, N. Y.	25	16	1	-
Scranton, Pa.	32	17	3	3
Syracuse, N. Y.	63	38	2	2
Trenton, N. J.	45	29	5	4
Utica, N. Y.	36	24	7	3
Yonkers, N. Y.	28	16	4	1
EAST NORTH CENTRAL:	2,739	1,562	128	157
Akron, Ohio	52	34	-	2
Canton, Ohio	30	18	-	1
Chicago, Ill.	781	415	53	48
Cincinnati, Ohio	206	135	6	10
Cleveland, Ohio	218	128	3	5
Columbus, Ohio	140	86	-	15
Dayton, Ohio	94	60	8	4
Detroit, Mich.	404	210	22	19
Evansville, Ind.	39	25	3	1
Flint, Mich.	42	19	1	5
Fort Wayne, Ind.	41	25	4	2
Gary, Ind.	39	18	1	4
Grand Rapids, Mich.	39	24	4	2
Indianapolis, Ind.	145	81	7	14
Madison, Wis.	21	12	-	3
Milwaukee, Wis.	130	68	3	9
Peoria, Ill.	38	27	2	1
Rockford, Ill.	32	20	2	-
South Bend, Ind.	56	36	5	4
Toledo, Ohio	115	73	4	6
Youngstown, Ohio	77	48	-	2
WEST NORTH CENTRAL:	963	597	41	38
Des Moines, Iowa	54	39	2	1
Duluth, Minn.	39	26	-	5
Kansas City, Kans.	59	30	5	3
Kansas City, Mo.	161	98	3	6
Lincoln, Nebr.	42	31	2	2
Minneapolis, Minn.	99	59	2	4
Omaha, Nebr.	77	50	4	3
St. Louis, Mo.	311	186	10	10
St. Paul, Minn.	84	59	2	3
Wichita, Kans.	37	19	11	1

Area	All Causes		Pneumonia and Influenza	Under 1 year
	All Ages	65 years and over	All Ages	All Causes
SOUTH ATLANTIC:	1,349	704	76	79
Atlanta, Ga.	193	92	11	19
Baltimore, Md.	292	145	5	17
Charlotte, N. C.	43	22	5	5
Jacksonville, Fla.	60	24	4	5
Miami, Fla.	103	52	1	4
Norfolk, Va.	49	22	7	4
Richmond, Va.	94	55	6	6
Savannah, Ga.	48	20	6	4
St. Petersburg, Fla.	108	87	6	1
Tampa, Fla.	100	64	13	1
Washington, D. C.	194	87	8	9
Wilmington, Del.	65	34	4	4
EAST SOUTH CENTRAL:	747	439	63	27
Birmingham, Ala.	104	58	4	3
Chattanooga, Tenn.	74	37	7	4
Knoxville, Tenn.	58	43	5	-
Louisville, Ky.	183	109	24	5
Memphis, Tenn.	138	73	6	8
Mobile, Ala.	34	21	1	-
Montgomery, Ala.	53	31	7	5
Nashville, Tenn.	103	67	9	2
WEST SOUTH CENTRAL:	1,209	626	72	74
Austin, Tex.	47	23	14	7
Baton Rouge, La.	27	16	1	1
Corpus Christi, Tex.	23	8	-	1
Dallas, Tex.	156	87	8	14
El Paso, Tex.	41	21	4	3
Fort Worth, Tex.	90	58	4	2
Houston, Tex.	222	101	10	12
Little Rock, Ark.	56	35	5	2
New Orleans, La.	214	109	7	10
Oklahoma City, Okla.	87	41	-	5
San Antonio, Tex.	118	61	11	11
Shreveport, La.	51	28	2	2
Tulsa, Okla.	77	38	6	4
MOUNTAIN:	467	262	34	30
Albuquerque, N. Mex.	45	26	9	2
Colorado Springs, Colo.	14	9	1	-
Denver, Colo.	119	66	6	9
Ogden, Utah	24	12	4	3
Phoenix, Ariz.	120	78	11	8
Pueblo, Colo.	24	13	-	1
Salt Lake City, Utah	60	29	1	5
Tucson, Ariz.	61	29	2	2
PACIFIC:	1,654	1,020	56	82
Berkeley, Calif.	18	14	-	-
Fresno, Calif.	49	31	1	2
Glendale, Calif.	32	26	1	-
Honolulu, Hawaii	42	23	-	4
Long Beach, Calif.	61	34	2	1
Los Angeles, Calif.	461	288	24	24
Oakland, Calif.	97	49	1	13
Pasadena, Calif.	44	27	-	1
Portland, Oreg.	133	85	-	8
Sacramento, Calif.	90	65	7	3
San Diego, Calif.	100	55	4	6
San Francisco, Calif.	243	146	3	9
San Jose, Calif.*	36	23	3	2
Seattle, Wash.	146	93	8	3
Spokane, Wash.	57	36	1	4
Tacoma, Wash.	45	25	1	2
Total	13,603	7,885	716	694

*Estimate - based on average percent of divisional total.

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	93,875
All Causes, Age 65 and over	54,293
Pneumonia and Influenza, All Ages	4,429
All Causes, Under 1 Year of Age	4,891

EPIDEMIOLOGIC NOTES AND REPORTS

MEASLES – Mason County, Kentucky

A measles immunization campaign was conducted in Mason County, Kentucky, during November and December, 1965 (MMWR, Vol. 14, Nos. 44 and 48). Including the 345 doses of live attenuated measles vaccine given in the initial phase of the campaign on November 2 and 3, a total of 702 doses had been given throughout the County by the end of December. This total includes over 90 percent of the susceptible elementary-school-age children.

During the second week in December an outbreak of measles started in a school in the village of Aberdeen, Brown County, Ohio, just across the river from Maysville in Mason County. Most of the service and shopping facilities for these two communities are in Maysville and there is considerable mixing of both populations.

As the school outbreak in Aberdeen progressed, the sickness absentee rate went up from an average of 20 to 50 students each day, the first and second grades being heavily affected in the early part of January. The kindergarten of 50 children was not affected by the outbreak; 20 of these children live in Maysville and had been immunized during the November campaign. The remaining 30 kindergarten children who lived in Aberdeen either had had measles or been immunized against it by their private physicians at the time of the Maysville campaign. Despite this outbreak in Aberdeen and the close association between the two communities, no further cases of measles occurred in Maysville,

Measles was again introduced into Mason County during December and 14 cases occurred subsequently among school and pre-school children in the Minerva School District. A pre-school child who was incubating measles came to live in this school district; this child infected a pre-school sibling and an aunt who was a second grade student. Thereafter, four other students in the first and second grades, five older children in the same school and three of their siblings of pre-school age, all developed measles. None of these 14 children had been immunized. Following this episode no additional cases have been reported to date in Mason County.

(Reported by Mr. J.R. Sills, Administrator, Mason County Health Department; Dr. Joseph W. Skaggs, Kentucky State Health Department; and an EIS Officer.)

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
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NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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